

ABSTRACT

A compact and high-performance boundary acoustic wave device using a boundary acoustic wave is provided by increasing the steepness of a filter band and by forming filters or resonators with different fractional bandwidths on a single substrate.

In a boundary acoustic wave device in which a solid layer 5 is laminated onto a single crystal substrate 4, and in which electrodes are provided between the single crystal substrate 4 and the solid layer 5, boundary acoustic wave elements 2 and 3 are provided which are formed using one single crystal substrate 4 having the same cut angle, and the propagation direction of the boundary acoustic wave element 2 is different from that of the boundary acoustic wave element 3, thereby forming a boundary acoustic wave device 1.